

AB	aggregate base
ABBC	asbestos bonded bituminous coated
ABM	air-blown mortar
Abn	abandon
Abut	abutment
AC	asphalt concrete
ACB	asphalt concrete base
ACP	asbestos cement pipe
AFES	alternative flared end section
Ahd	ahead
Adj	adjust
Alt	alternate
AP	alternative pipe
APC	alternative pipe culvert
APU	alternative pipe underdrain
AS	aggregate subbase
ASRP	aluminum spiral rib pipe
Assy	assembly
ATPB	asphalt treated permeable base
ATPM	asphalt treated permeable material
Ave	avenue

B	beginning of bridge
BC	begin horizontal curve
BCR	begin curb return
Beg	begin
Bit Ctd	bituminous coated
Bk	back
Bkf	backfill
Bldg	building
Blvd	boulevard
BM	bench mark
Br	bridge
BVC	begin vertical curve
BW	barbed wire

CAA	cable anchor assembly
CAP	corrugated aluminum pipe
CAPA	corrugated aluminum pipe arch
CAS	construction area sign
C-C	center to center
CF	cubic foot
Chnl	channel
CIDH	cast-in-drilled-hole
CIP	cast iron pipe
CIPCP	cast-in-place concrete pipe
CL	centerline
CL	chain link
Cl	class
Clr	clear, clearance
Co	county
Col	column
Conc	concrete
Cond	conduit
Conn	connector
Const	construct (ion)
Coord	coordinate
Cr	creek
CRSP	concreted rock slope protection
CSP	corrugated steel pipe
CSPA	corrugated steel pipe arch
CTB	cement treated base

CTPB	cement treated permeable base
CTPM	cement treated permeable material
Culv	culvert
CY	cubic yard

D	depth
Dbi	double
DD	down drain
Del	delineator
Det	detour or detail
DF	Douglas Fir
DI	drainage inlet
Dia	diameter
Dist	distance
DMBB	double metal beam barrier
Dr	drive
DTBB	double thrie beam barrier
Dwy	driveway

E	each
Ease	easement
EB	end of bridge or eastbound
EC	end horizontal curve
ECR	end curb return
ED	edge drain
EDC	edge drain cleanout
EDO	edge drain outlet
EDV	edge drain vent
Elev	elevation
Emb	embankment
EP	edge of pavement
Eq	equation
ES	edge of shoulder
ETW	edge of traveled way
EVC	end vertical curve
EW	endwall
Exc	excavation
Exlst	existing
Exp	expressway
Exp Jt	expansion joint

F & C	frame and cover
Fdn	foundation
FEBT	facing eastbound traffic
FNB	facing northbound traffic
FSBT	facing southbound traffic
FWBT	facing westbound traffic
FES	flared end section
FF	filter fabric
F & G	frame and grate
FG	finished grade
FH	fire hydrant
FL	flow line
Fr Rd	frontage road
Ftg	footing
Fwy	freeway

G	gage
Galv	galvanized
GP	grading plane
GR	guard railing

GSP	galvanized steel pipe
H	height
h	hour
HD	horizontal drain
Horiz	horizontal
HP	hinge point or horse power
HS	high strength
HW	headwall
Hwy	highway

I	imported borrow
ID	inside diameter
Inv	invert
Irr	irrigation
J	joint pole
JP	junction structure
JS	joint
Jt	joint

K	kilometer post
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L	length, liter
lb	pound
LCB	lean concrete base
Loc	location
LF	linear foot
LOL	layout line
Ln	lane
LS	lump sum
Lt	left

M	maximum
MB	metal beam
MBB	metal beam barrier
MBGR	metal beam guard railing
Med	median
MFBM	thousand foot board measure
MH	manhole
Mkr	marker
Min	minimum, minutes
Misc I&S	miscellaneous iron and steel
Misc	miscellaneous
Mod	modified or modify
Mon	monument
MP	metal plate
MPGR	metal plate guard railing
MR	movement rating
Mtl	material

N	northbound
Nb	number
NPS	nominal pipe size
Ø	nominal diameter

O	obliterate
Oblr	overcrossing
OC	outside diameter
OD	original ground
OG	open graded asphalt concrete
OGAC	overhead
OH	overhead
P	perforated aluminum pipe
PAP	pull box
PB	point of curvature
PC	point of compound curve or portland cement concrete
PCC	perforated concrete pipe
PCP	point of compound vertical curve
PCVC	pedestrian
Ped	pedestrian overcrossing
Ped OC	pedestrian undercrossing
Ped UC	permeable material
Perm MH	profile grade
PG	point of intersection
PI	property line
P/L	plate
PL	post mile
PM	paving notch
PNC	point on horizontal curve
POT	point on tangent
POVC	point on vertical curve
PP	power pole or plastic pipe
PPP	perforated plastic pipe
PPL	performed permeable liner
PRC	point of reverse curve
PRF	pavement reinforcing fabric
PRVC	point of reverse vertical curve
PSP	perforated steel pipe
PVC	polyvinyl chloride
Pvmt	pavement

R	radius
RCA	reinforced concrete arch
RCB	reinforced concrete box
RCF	reinforced concrete pipe
RCFA	reinforced concrete pipe arch
R & D	remove and dispose
Rd	road
Reinf	reinforced or reinforcing
Rel	relocate
Ret	retaining
RM	road-mixed
RP	reference point
RR	railroad
R & S	remove and salvage
RSP	rock slope protection
Rt	right
Rte	route
RW	retaining wall
R/W	right of way

S	structure approach
SAE	embankment
Salv	salvage

SAPP	structural aluminum plate pipe
SB	southbound
SC	sand cushion
SL	station line
SCSP	slotted corrugated steel pipe or sacked concrete slope protection
SD	storm drain
Sec	section
Sep	separation
SG	subgrade
SGD	subgrade drain
Shld	shoulder
Sht	sheet
SI	International System of Units
SM	selected material
Spec	special
SPP	slotted plastic pipe
SS	slope stake
SOFT	square foot
SOYD	square yard
SSBM	strap and saddle bracket method
SSD	structural section drain
SSPA	structural steel plate arch
SSPP	structural steel plate pipe
SSPPA	structural steel plate pipe arch
SSRP	steel spiral rib pipe
St	street
STA, Sta	station
STBB	single thrie beam barrier
Std	standard
Str	structure
Surf	surfacing
SW	sidewalk or sound wall
Swr	sewer

T	semi-tangent
TAB	tablet
TBB	thrie beam barrier
Tbr	timber
TC	top of curb
TCB	traffic control box
Temp	temporary
TG	top of grate
TP	telephone pole
TPB	treated permeable base
TPM	treated permeable material
Trans	transition
TS	traffic signal or tubular steel
Typ	typical
Typ Sec	typical section

U	undercrossing
UC	underdrain
UD	underpass

V	design speed or valve
Var	variable
VCC	vertical curve
VCP	vitrified clay pipe
Vert	vertical
Via	viaduct
W	width
WB	westbound
WH	weep hole
WM	wire mesh
WSP	welded steel pipe
WW	water valve
WW	wing wall
X	crossing
X Sec	cross section

SI PREFIXES

PREFIX	SYMBOL	MULTIPLICATION FACTOR
milli-	m	10 ⁻³
kilo-	k	10 ³
mega-	M	10 ⁶
giga-	G	10 ⁹

METRIC UNITS (SI)

SYMBOL	UNIT
mm	millimeter
m	meter
g	gram
s	second
A	ampere
°C	degrees Celsius
Hz	hertz
N	Newton
Pa	Pascal
l	liter
ha	hectare
W	Watt

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ABBREVIATIONS AND ACRONYMS

These "Standard Plans for Construction of Local Streets and Roads" contain units in two systems of measurement: International System of Units (SI or "metric") and United States Standard Measures shown in the parentheses (). The measurements expressed in the two systems are not necessarily equal or interchangeable. See the "Foreword" at the beginning of this publication.

NO SCALE

A10A

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

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REGISTERED CIVIL ENGINEER
No. C33827
Exp. 6-30-06
STATE OF CALIFORNIA

July 1, 2002
PLANS APPROVAL DATE

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